Contents of Applied Physics A 51

This listing presents the papers in alphabetical order of the first author, subdivided into the sections "**Solids and Materials**: Physical and Chemical Properties" and "**Surfaces and Multilayers**: Growth, Modification, and Integration". The Author Index that follows covers **Applied Physics A** and **B**, and is presented in tabular form. The names are listed in alphabetical order in the first column. The second and third columns contain the bibliographic data necessary to locate the paper. The issue is specified by the number separated from the volume number by a slash. The PACS numbers given in the fourth column may be used in conjunction with the PACS listing on the left to infer the topic of a paper.

Solids and Materials

Akahane T., Chiba T., Shiotani N., Tanigawa S., Mikado T., Suzuki R., Chiwaki M., Yamazaki T., Tomimasu T.:
Stretching of slow positron pulses generated with an electron linac.
Appl. Phys. A 51/2, 146-150 (1990) PACS: 07.77 41.80

Balynas V., Krotkus A., Stalnionis A., Gorelionok A.T., Shmidt N.M., Tellefsen J.A.:
Time-resolved, hot-electron conductivity measurement using an electro-optic sampling technique.
Appl. Phys. A 51/4, 357-360 (1990) PACS: 72.20

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New evaluation of the angular correlation of positron annihilation spectra for noble and d-transition metals.
Appl. Phys. A 51/1, 23-27 (1990) PACS: 78.70B

Bauer E.:
Phase transitions in metals on metals.
Appl. Phys. A 51/2, 71-78 (1990) PACS: 68.35M 68.35 68.55

Black J.E., Janzen A.:
Small rafts of xenon physisorbed on Pt(111): A molecular dynamics study.
Appl. Phys. A 51/2, 121-125 (1990) PACS: 68.35R 82.20

Brenig W., Küchenhoff S., Kasai H.:
Molecular vibration dynamics in molecule-surface interactions.
Appl. Phys. A 51/2, 115-120 (1990) PACS: 82.20F 68.35

Browne D.A., Yu B., Kleban P.:
Critical phenomena in nonequilibrium phase transitions.
Appl. Phys. A 51/3, 194-202 (1990) PACS: 68.35R 82.65

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The calorimetric detection of rare events in the cryogenic regime.
Appl. Phys. A 51/6, 467-475 (1990) PACS: 06.00 34.00 65.00

Desnica U.V., Desnica D.I., Santić B.:
Light-intensity dependence of slow-relaxation phenomena in semi-insulting GaAs.
Appl. Phys. A 51/5, 379-381 (1990) PACS: 71.55E 72.20 72.80

Doyen G., Koetter E., Vigneron J.P., Scheffler M.:
Theory of scanning tunneling microscopy.
Appl. Phys. A 51/4, 281-288 (1990) PACS: 68.35 73.20 82.65

Dyment F., Behar M., Dhers H., Grande P.L., Savino E., Zawislak F.C.:
Diffusion of Hf in α-Zr.
Appl. Phys. A 51/1, 29-33 (1990) PACS: 66.10C 66.30

Eiswirth R.M., Krischer K., Ertl G.:
Nonlinear dynamics in the CO-oxidation on Pt single crystal surfaces.
Appl. Phys. A 51/2, 79-90 (1990) PACS: 68.10I 68.10

Esme I., Cil C.Z., Aktas G.:
Frequency dependent conductivity in As_2Se_3 and As_2Se_3 + 15% Sb.
Appl. Phys. A 51/6, 481-485 (1990) PACS: 72.20

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Disordered charge distributions and dielectric loss in extra dense flint glasses.
Appl. Phys. A 51/5, 382-386 (1990) PACS: 61.40D 61.70 63.50 77.20

FENG H., WEN J., WANG Hong, WANG Huafu:
Studies of absorption spectra and the photovoltaic effect in $LiNbO_3$: Mg:Fe crystals.
Appl. Phys. A 51/5, 394-397 (1990) PACS: 78.50E 72.40

Gadzuk J.W.:
Pumping and probing: Vibrational relaxation in time domain spectroscopy.
Appl. Phys. A 51/2, 108-114 (1990) PACS: 68.35J

Gundusharma U.M., Secco E.A.:
Fast Na^+ ion conductivity in glass, intermediate and crystalline phases of $Na_4UO_2(SO_4)_3$.
Appl. Phys. A 51/1, 7-12 (1990) PACS: 66.30 61.40

Hähner G., Toennies J.P., Wöll Ch.:
Normal modes of CO adsorbed on metal surfaces.
Appl. Phys. A 51/3, 208-215 (1990) PACS: 68.35J 68.45

Hakim M.B., Woodgate B.E.:
Curved crystal analysis using a triple-crystal X-ray spectrometer.
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Frequency-dependent protonic conduction and high resolution ^1H NMR of KDP around 298 K.
Appl. Phys. A 51/6, 455-458 (1990) PACS: 05.60 32.40

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Appl. Phys. A 51/4, 271-180 (1990) PACS: 36.40 79.20 82.65 68.45

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Conductivity and light-induced absorption in $BaTiO_3$.
Appl. Phys. A 51/1, 13-17 (1990) PACS: 61.70 72.40 78.20

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Semiconductor interface studies using core and valence level photoemission.
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Huber T.E., Huber C.A.:
Infrared absorption of H_2 adsorbed on porous glass, silica gel, and MgO.
Appl. Phys. A 51/2, 137-140 (1990) PACS: 82.65M 33.20

JIANG X., Goodman D.W.:
Dissociative adsorption of alkanes on clean and sulfur-modified surfaces.
Appl. Phys. A 51/2, 99-107 (1990) PACS: 82.65J 81.40

Kreuzer H.J., Zhang J.:
Kinetic lattice gas model: Langmuir, ising and interaction kinetics.
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Lee C.H., Sheu E.Y., Liang K.S., D'Amico K.L., Unertl W.N.:
Kinetics of domain wall pinning in an incommensurate Pb overlayer on a Cu(110) surface.
Appl. Phys. A 51/3, 191-193 (1990) PACS: 68.35R 82.65 68.10

LI F.-b.:
Compact solution for a multizone BCS and TTN crack model.
Appl. Phys. A 51/4, 327-331 (1990) PACS: 62.20

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Interacting diffusion of two dopants through crystalline silicon.
Appl. Phys. A 51/5, 398-404 (1990) PACS: 68.35F

Marinelli Massimo, Murtas F., Mecozzi M.G., Zammit U., Pizzoferrato R., Scudieri F., Martelucci S., Marinelli Marco:
Simultaneous determination of specific heat, thermal conductivity and thermal diffusivity at low temperature via the photopyroelectric technique.
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Menai A., Huguenin D., Bernardini J., Moya G., Moser P.:
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Valence and core excitations in rare gas mono- and mulilayers: Production, decay and desorption of neutrals and ions.
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Infrared-visible sum-frequency generation spectra of CO on Ni(100).
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The influence of a magnetic field on the mosaic spread and growth rate of small Rochelle salt crystals.
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Study of surface-molecule interactions using nuclear resonance photon scattering.
Appl. Phys. A 51/3, 203-207 (1990) PACS: 85.65 25.70

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CMOS 1/f noise: n-channel vs p-channel.
Appl. Phys. A 51/4, 337-339 (1990) PACS: 73.40Q 61.70

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Simultaneous formation of contacts and diffusion barriers for VLSI by rapid thermal silicidation of TiW.
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He and Ar post-bombardment effects on carbonitrides formed in a Cr-rich steel.
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The angular behaviour of electrons inelastically scattered from the shape resonance for CO chemisorbed on Ni(110).
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Carrier recombination and high-barrier Schottky diodes on silicon.
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Optical properties of MnAl films.
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CHEN C., TSONG T.T.:
Structure transformation of Ir clusters on Ir surfaces.
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Laser melting of GaAs covered with thin metal layers.
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Phonon-assisted Auger recombination in quantum well semiconductors.
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Dependence of "Reststrahlen" bands in far-infrared reflectivity on configuration of GaAs/AlAs multiple quantum well heterostructures.
Appl. Phys. A 51/3, 252-254 (1990) PACS: 68.65 78.30 78.65
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Surface cleaning using sputtering.
Appl. Phys. A 51/3, 238-251 (1990) PACS: 79.20 68.35 81.60 61.80

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Direct ion beam deposition of polymeric styrene films and in situ characterization by electron spectroscopy.
Appl. Phys. A 51/6, 526-536 (1990) PACS: 73.60H 79.60 81.15 81.20

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Thin yttrium and rare earth oxide films by plasma enhanced CVD of novel organometallic π-complexes.
Appl. Phys. A 51/6, 520-525 (1990) PACS: 81.15G 52.90 68.55